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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207131F: <i>A-10 SQUADRONS</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	3.989	12.197	5.661	0.000	5.661	5.750	5.987	6.075	6.160	Continuing	Continuing
674809: <i>A-10 Squadrons</i>	3.989	12.197	5.661	0.000	5.661	5.750	5.987	6.075	6.160	Continuing	Continuing

Note

Note 1: In FY 2009 Congress added \$4.0M for Helmet Mounted Cuing System (HMCS). The title of the Add specified Scorpion HMCS, a brand name. The A-10 program has not selected a vendor for this effort, so the funds have not been obligated or expended.

Note 2: In FY 2010 Congress added \$2.5M for CAD/CAM Aircraft Structural Overhaul Work Center. A government-industry team will develop new repair procedures utilizing CAD/CAM technology.

A. Mission Description and Budget Item Justification

The concept of operations for the A-10 requires an agile and survivable weapon system that provides close-air support, combat search and rescue, and special operations support. The high operations tempo maintained by the Expeditionary Air Force requires that each combat platform exhibit the flexibility to effectively perform in a variety of operational roles. To implement these strategies, Combat Air Forces (CAF) must be able to conduct air operations around-the-clock under various weather conditions against numerous enemy threats employing a full spectrum of air defense systems to include countermeasures.

The A-10 is an essential component of successful air operations, and represents a significant percentage of the CAF force structure with 356 aircraft currently in service (plus one ground training aircraft). FY 2010 President's Budget (PB) projected the retirement of three aircraft in FY 2010. An additional six aircraft are projected for retirement in FY 2013.

FY 2011 RDT&E funds address continuing user requirements that need to be incorporated within the Operational Flight Program (OFP). Each year user developmental requirements are formally reviewed for incorporation in the annual aircraft OFP release cycle to bring new capability to the A-10 and to fix both hardware and software OFP deficiencies. The A-10 weapon system's attributes include excellent low speed maneuverability, high weapons payload, long loiter time, very high tolerance to battle damage, and the lowest cost per flying hour of any CAF fighter. The A-10 weapon system is the Air Force's most effective Close Air Support (CAS) and anti-armor platform.

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207131F: <i>A-10 SQUADRONS</i>
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Results of previously planned developmental and modernization actions provide the A-10 with new combat capabilities that employ a variety of smart weapons, improved situational awareness, increased service life to the wing and fuselage, and enhanced target identification and designation capability. The funds budgeted in the near term will provide updates to the aircraft OFP in Suites 6 and 7 and will address continued integration of Precision Engagement capabilities, for example J-Series and Variable Message Format (VMF) messages, and incorporation of Mode 5. Later in the Future Years Defense Program, subsequent OFP Suites are projected to incorporate additional functionality and capabilities such as electronic warfare, cursor on target and evolving targeting pod capabilities.

Ongoing planning and associated activities will continue to take place to prevent and overcome diminishing manufacturing sources and obsolescence issues as required.

This program is in Budget Activity 07 - Operational System Development because it supports a fielded weapon system.

B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	3.989	9.697	0.000	0.000	0.000
Current President's Budget	3.989	12.197	5.661	0.000	5.661
Total Adjustments	0.000	2.500	5.661	0.000	5.661
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		2.500			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	5.661	0.000	5.661

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 674809: *A-10 Squadrons*

Congressional Add: *Helmet Mounted Cueing System*

Congressional Add: *CAD CAM Aircraft Structural Overhaul Work Center*

Congressional Add Subtotals for Project: 674809

	<u>FY 2009</u>	<u>FY 2010</u>
	3.989	0.000
	0.000	2.500
	3.989	2.500

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Congressional Add Details (\$ in Millions, and Includes General Reductions)	FY 2009	FY 2010
Congressional Add Totals for all Projects	3.989	2.500

Change Summary Explanation

Note 1: The FY 2010, Congress added \$2.5 million for a CAD/CAM Aircraft Structural Overhaul Work Center.

Note 2: The FY 2010 President's Budget submittal did not reflect FY 2011 through FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0207131F: <i>A-10 SQUADRONS</i>				PROJECT 674809: <i>A-10 Squadrons</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
674809: <i>A-10 Squadrons</i>	3.989	12.197	5.661	0.000	5.661	5.750	5.987	6.075	6.160	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

Note 1: In FY 2009, Congress added \$4.0M for Helmet Mounted Cuing System (HMCS). The title of the Add specified Scorpion HMCS, a brand name. The A-10 program has not selected a vendor for this effort, so the funds have not been obligated or expended.

Note 2: In FY 2010, Congress added \$2.5M for CAD/CAM Aircraft Structural Overhaul Work Center. A government-industry team will develop new repair procedures utilizing CAD/CAM technology.

A. Mission Description and Budget Item Justification

The concept of operations for the A-10 requires an agile and survivable weapon system that provides close-air support, combat search and rescue, and special operations support. The high operations tempo maintained by the Expeditionary Air Force requires that each combat platform exhibit the flexibility to effectively perform in a variety of operational roles. To implement these strategies, Combat Air Forces (CAF) must be able to conduct air operations around-the-clock under various weather conditions against numerous enemy threats employing a full spectrum of air defense systems to include countermeasures.

The A-10 is an essential component of successful air operations, and represents a significant percentage of the CAF force structure with 356 aircraft currently in service (plus one ground training aircraft). FY 2010 President's Budget (PB) projected the retirement of three aircraft in FY 2010. An additional six aircraft are projected for retirement in FY 2013.

FY 2011 RDT&E funds address continuing user requirements that need to be incorporated within the Operational Flight Program (OFP). Each year user developmental requirements are formally reviewed for incorporation in the annual aircraft OFP release cycle to bring new capability to the A-10 and to fix both hardware and software OFP deficiencies. The A-10 weapon system's attributes include excellent low speed maneuverability, high weapons payload, long loiter time, very high tolerance to battle damage, and the lowest cost per flying hour of any CAF fighter. The A-10 weapon system is the Air Force's most effective Close Air Support (CAS) and anti-armor platform.

Results of previously planned developmental and modernization actions provide the A-10 with new combat capabilities that employ a variety of smart weapons, improved situational awareness, increased service life to the wing and fuselage, and enhanced target identification and designation capability. The funds budgeted in the near term will provide updates to the aircraft OFP in Suites 6 and 7 and will address continued integration of Precision Engagement capabilities, for example

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J-Series and Variable Message Format (VMF) messages, and incorporation of Mode 5. Later in the Future Years Defense Program, subsequent OFP Suites are projected to incorporate additional functionality and capabilities such as electronic warfare, cursor on target and evolving targeting pod capabilities.

Ongoing planning and associated activities will continue to take place to prevent and overcome diminishing manufacturing sources and obsolescence issues as required.

This program is in Budget Activity 07 - Operational System Development because it supports a fielded weapon system.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Integration of Mode 5 (Identify Friend or Foe) Capability into A-10 fleet <i>FY 2009 Accomplishments:</i> In FY 2009: Not Applicable <i>FY 2010 Plans:</i> In FY 2010: Award contract to conduct integration testing of Mode 5 hardware. In addition, conduct temporary modification to an A-10C aircraft with existing Mode S hardware to enable Mode 5 and flight test to demonstrate operation/interrogation of Mode 5. <i>FY 2011 Base Plans:</i> In FY 2011: Not Applicable <i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable	0.000	2.970	0.000	0.000	0.000
MAJOR THRUST: Operational Flight Program (OFP) development/integration efforts <i>FY 2009 Accomplishments:</i> In FY 2009: Not Applicable	0.000	6.727	5.661	0.000	5.661

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2010 Plans:</i> In FY 2010: A-10C OFP Suite software is updated on an annual release cycle to permit rapid integration of new precision weapons, advanced targeting pods, improved avionics, and enhanced EW capabilities. These efforts are in response to Combatant Command Urgent Operational Needs and evolving mission needs in the ever-changing operational environment of close air support.</p> <p><i>FY 2011 Base Plans:</i> In FY 2011: A-10C OFP Suite software is updated on an annual release cycle to permit rapid integration of new precision weapons, advanced targeting pods, improved avionics, and enhanced EW capabilities. These efforts are in response to Combatant Command Urgent Operational Needs and evolving mission needs in the ever-changing operational environment of close air support.</p> <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable</p>								
Accomplishments/Planned Programs Subtotals				0.000	9.697	5.661	0.000	5.661
				FY 2009	FY 2010			
<p>Congressional Add: Helmet Mounted Cueing System</p> <p><i>FY 2009 Accomplishments:</i> In FY 2009: The Helmet Mounted Cueing System (HMCS) is an electro-optical device for displaying information on a visor in the pilot's line of sight during daytime and nighttime operations. The HMCS provides the pilot with the capability to cue the aircraft sensor suite and weapons outside of the Heads Up Display (HUD) field of view and provides sensor and weapon data feedback to the pilot. Along with the new helmet system, the HMCS program will also provide the capability for future upgrades to the flat-panel display incorporated into the helmet.</p>				3.989	0.000			

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B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010
<i>FY 2010 Plans:</i> In FY 2010: Not Applicable		
Congressional Add: CAD CAM Aircraft Structural Overhaul Work Center <i>FY 2009 Accomplishments:</i> In FY 2009: Not Applicable <i>FY 2010 Plans:</i> In FY 2010: A government-industry team will develop new repair procedures utilizing CAD/CAM technology. The program will build upon a successful exploratory program for B-52 engine structural overhaul to enable the Hill Air Force Base (AFB) A-10 System Program Office and Mission Support Inc. to identify existing structural overhaul requirements for the A-10 that have extensive tooling requirements or are experiencing delays associated with tooling availability.	0.000	2.500
Congressional Adds Subtotals	3.989	2.500

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PE 0207131F: <i>A-10 Squadrons</i>	145.143	252.761	164.681	16.500	181.181	155.143	148.843	137.847	0.000	0.000	0.000
• PE 0207445F: <i>Fighter Tactical</i>	5.788	8.921	0.680	0.000	0.680	0.675	0.000	0.000	0.000	0.000	0.000
<i>Data Link</i>											

D. Acquisition Strategy

Helmet Mounted Cuing System (HMCS) acquisition strategy was developed with the F-16 SPO at Hill AFB to support both A-10 and F-16 requirements. The Request for Proposal was released to industry September 2009. Program is currently in source selection with estimated April 2010 contract award.

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<p>Computer Aided Design/Computer Aided Manufacture (CAD/CAM) Aircraft Structural Overhaul Work Center acquisition strategy is to award a sole source Small Business Set-Aside contract to Mission Support, Inc. The contract will describe the requirements for identifying existing structural overhaul activities for the A-10 that need tooling developed. Expedited tooling development will reduce production delays during parts remanufacturing and thus improve aircraft overhaul throughput and availability.</p> <p>MODE 5 acquisition strategy is being developed to meet Air Force directives.</p> <p>Prior to FY 2009, A-10 development efforts were conducted under the A-10 Prime Contract awarded to Lockheed Martin Systems Integration (LMSI) in December 1997 through a full-and-open competition. The original period of performance/ordering period ended in December 2006. A bridge contract was awarded with an ordering period through March 2010. Following the FY 2010 Suite 7 award scheduled for January 2010, subsequent development efforts are being considered for transfer to government (organic) sources in accordance with a September 2009 Source of Repair decision by Air Force Materiel Command.</p> <p>E. Performance Metrics</p> <p>Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force										DATE: February 2010			
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Product Development (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Precision Engagement Development	SS/CPIF	Lockheed Martin Systems Integration (LMSI) Owego NY	130.227	0.000		0.000		0.000		0.000	0.000	130.227	0.000
Helmet Mounted Cueing System	C/Various	TBD TBD	3.989	0.000		0.000		0.000		0.000	0.000	3.989	0.000
Mode 5 (IFF)	TBD/TBD	TBD TBD	0.000	2.970	Jan 2010	0.000		0.000		0.000	0.000	2.970	0.000
OFP Development (LMSI)	SS/Various	LMSI Owego NY	0.000	5.764	Jan 2010	4.353	Nov 2010	0.000		4.353	0.000	10.117	0.000
OFP Development (Organic)	TBD/TBD	TBD TBD	0.000	0.000		0.500	Dec 2010	0.000		0.500	0.000	0.500	0.000
CAD/CAM Aircraft Structural Overhaul Work Center	SS/TBD	Mission Support, Inc Clearfield, UT	0.000	2.500		0.000		0.000		0.000	0.000	2.500	0.000
Subtotal			134.216	11.234		4.853		0.000		4.853	0.000	150.303	0.000

Remarks

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force **DATE:** February 2010

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Support (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
USAF (Multiple)	Various/ Various	Various Various	3.574	0.963	Jan 2010	0.808	Nov 2010	0.000		0.808	0.000	5.345	0.000
Subtotal			3.574	0.963		0.808		0.000		0.808	0.000	5.345	0.000

Remarks

Test and Evaluation (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
USAF (OFF)	TBD/TBD	TBD TBD	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000

Remarks

Test and Evaluation costs are included in the "Support" line

Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	137.790	12.197		5.661		0.000		5.661	0.000	155.648	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force **DATE:** February 2010

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	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
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Remarks
Total Prior Years Cost may include only FY 2009 data.

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY
 3600: *Research, Development, Test & Evaluation, Air Force*
 BA 7: *Operational Systems Development*

R-1 ITEM NOMENCLATURE
 PE 0207131F: *A-10 SQUADRONS*

PROJECT
 674809: *A-10 Squadrons*

A-10 Master Schedule (PEC 0207131F)

	FY 2009				FY 2010				FY 2011				FY 2012	FY 2013	FY 2014	FY 2015
	1	2	3	4	1	2	3	4	1	2	3	4				
Suite 6 SDD & Test OFF Fielding	RA&D / Development / Integration / Flight Test															
Suite 7 SDD & Test OFF Fielding	RA&D / Development / Integration / Test															
Mode 5 (IFF)																
HMCS																
CAD/CAM																
Suite 8 SDD & Test OFF Fielding																
Suite 9 SDD & Test OFF Fielding																
Suite 10 SDD & Test OFF Fielding																
Suites 11 and beyond field on a yearly basis similar to Suite 10																

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force		DATE: February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Suite 6 OFP System Design, Development & Flight Test	1	2009	3	2010
Suite 6 OFP Fields	3	2010	3	2010
Suite 7 OFP System Design, Development & Flight Test	1	2009	3	2011
Suite 7 Fields	3	2011	3	2011
Mode 5 (IFF) Integration	2	2010	4	2010
Helmet Mounted Cueing System	3	2010	2	2011
CAD/CAM Aircraft Structural Overhaul Work Center	2	2010	2	2011
Suite 8 OFP System Design, Development & Flight Test	4	2009	4	2011

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